

## Embedded Laser Cutting Device Inspection Checklist

To be used for embedded Laser cutters only!

Facility: \_\_\_\_\_ Dept.: \_\_\_\_\_

Device Location: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Model No. : \_\_\_\_\_ Serial No.: \_\_\_\_\_

Laser Type: ( ) CO2 ( ) other, specify \_\_\_\_\_ Laser Class: \_\_\_\_\_

Contact person for purpose of inspection? \_\_\_\_\_

Is a fire extinguisher available within a reasonable distance? ( ) Yes ( ) No

A fire extinguisher needs to be a reasonable distance from the unit.

Are users trained in the use of fire extinguishers? ( ) Yes ( ) No

Is the area free and clear of clutter and flammable materials? ( ) Yes ( ) No

The area around the unit must be free of clutter and flammable materials.

In almost all cases, cutting is limited to wood, cardboard and Plexiglas. Is a sign posted near the unit addressing acceptable materials to be cut in the device? ( ) Yes ( ) No. If no, please be certain one is posted. Follow-up may be required. Are any materials other than specified cut in the device? ( ) Yes ( ) No. If yes, identify the materials. \_\_\_\_\_

Is the area below the cutting table reasonably free of debris? ( ) Yes ( ) No

Have all users taken online training? ( ) Yes ( ) No >> Function specific training ( ) Yes ( ) No

These units contain high power lasers. There may also be a low power, less than 5 mW alignment lasers. These units are referred to as embedded lasers. This simply means the high power laser light is inaccessible. To achieve this, interlocks are placed on the laser. A plastic view screen also prevents access to the beam. **A key part of the inspection is to verify interlock function and integrity of the view screen.** To do this, you will need to have a qualified person (trained) operate the laser for you. A test cutting project will need to be run. Once the test cut has started, open the lid of the device not more than one quarter inch. The interlocks are functioning properly when the laser shuts off immediately and requires a manual reset.

**Do the interlocks function properly?** ( ) Yes ( ) No

**View Screen is in good condition?** ( ) Yes ( ) No

If the answer to either of the two questions is no briefly describe the problem below and tag the unit out of service and **inform the LSO, RSO or a Health Physicist right away.** Be certain the manager of the facility understands the unit is not to be used until repaired and cleared by the LSO.

Problem: \_\_\_\_\_

Comments? \_\_\_\_\_

Inspector signature: \_\_\_\_\_ Date: \_\_\_\_\_